1   1.   In communication system, a method of optimizing MPEG-7

2 transmissions between a server and an one or more clients, a first ADL (application

3 descriptive language) which is a subset of MPEG-7 DDL (Description definition language)

4 being translated into binary for communication to the first client, the method comprising:

5   receiving, by the first client, the binary communication of the ADL; and

6   translating, by the first client, the binary communication into the first ADL,

7 the binary communication being translated using a frequency table, and an XSLT (XML style

8 translation) document for translating MPEG-7 into the first ADL.

1   2.   The method of claim 1 further comprising

2   generating the first ADL from the MPEG-7 DDL.

          3.   The method of claim 1 further comprising

            generating, by the server, the XSLT document.

          4.   The method of claim 1 further comprising

            generating, by the server, the frequency table for translating the first ADL into

binary.

          5.   The method of claim 1 further comprising

            downloading, by the first client, the frequency table and the XSLT, prior to

receiving the binary communication.

1   6.   The method of claim 1 wherein translating the binary document into

2 the first ADL further comprises

3   generating, a decoding codebook for the binary communication using the

4 frequency tables and the XSLT document.

1   7.   The method of claim 1 further comprising

2   communicating information carried by the binary communication to a second

3 client via the server.

1   8.   The method of claim 7 further comprising

2   translating the first ADL into the binary communication;

3   forwarding the binary communication to the server;

4   translating, by the server, the binary communication into first ADL;

5   translating the first ADL into the MPEG-7 DDL; and

6   translating the MPEG-7 into a second ADL different from the first ADL.

1   9. The system of claim 8 further comprising

2   translating the second ADL into binary communication for forwarding to the

3 second client.